

FIG. 1

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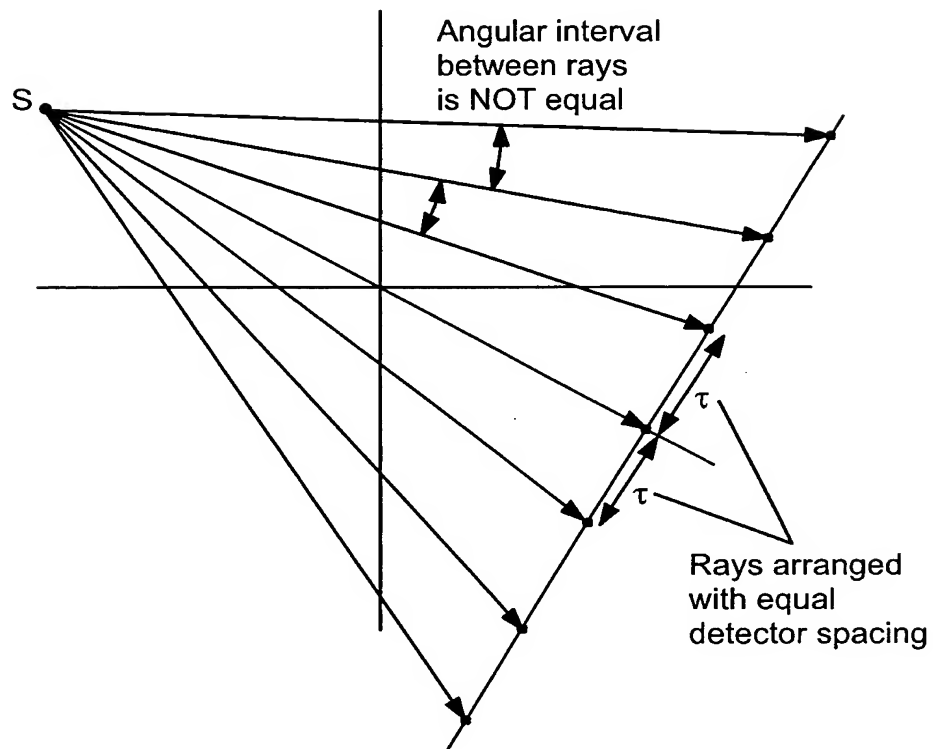


FIG. 2

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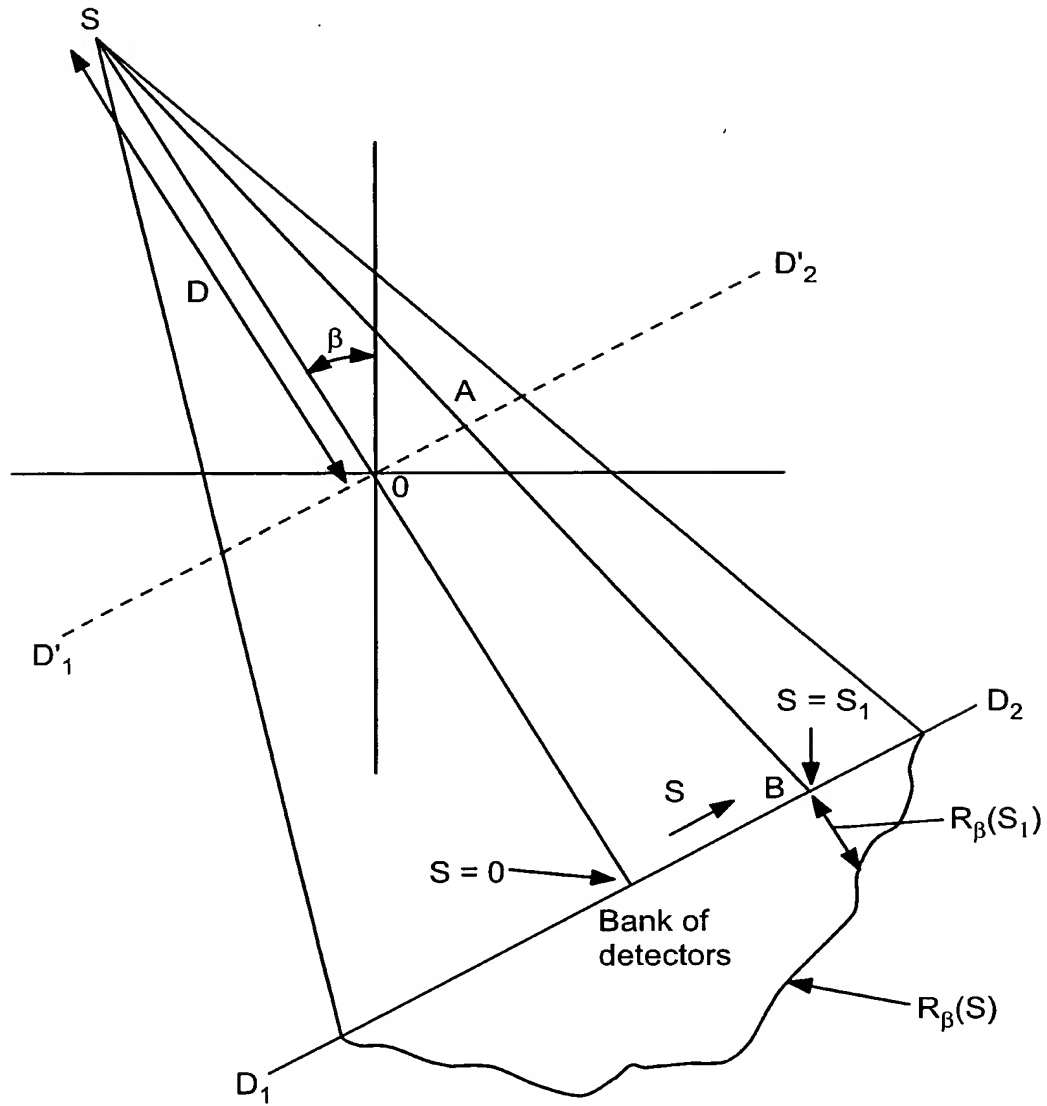


FIG. 3

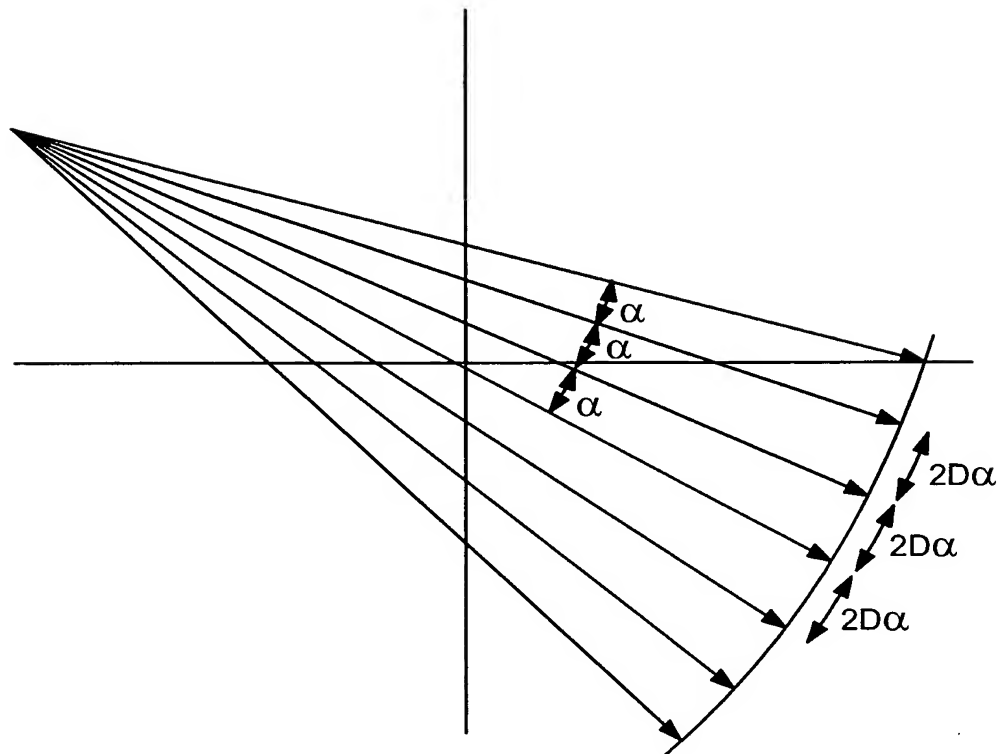


FIG. 4

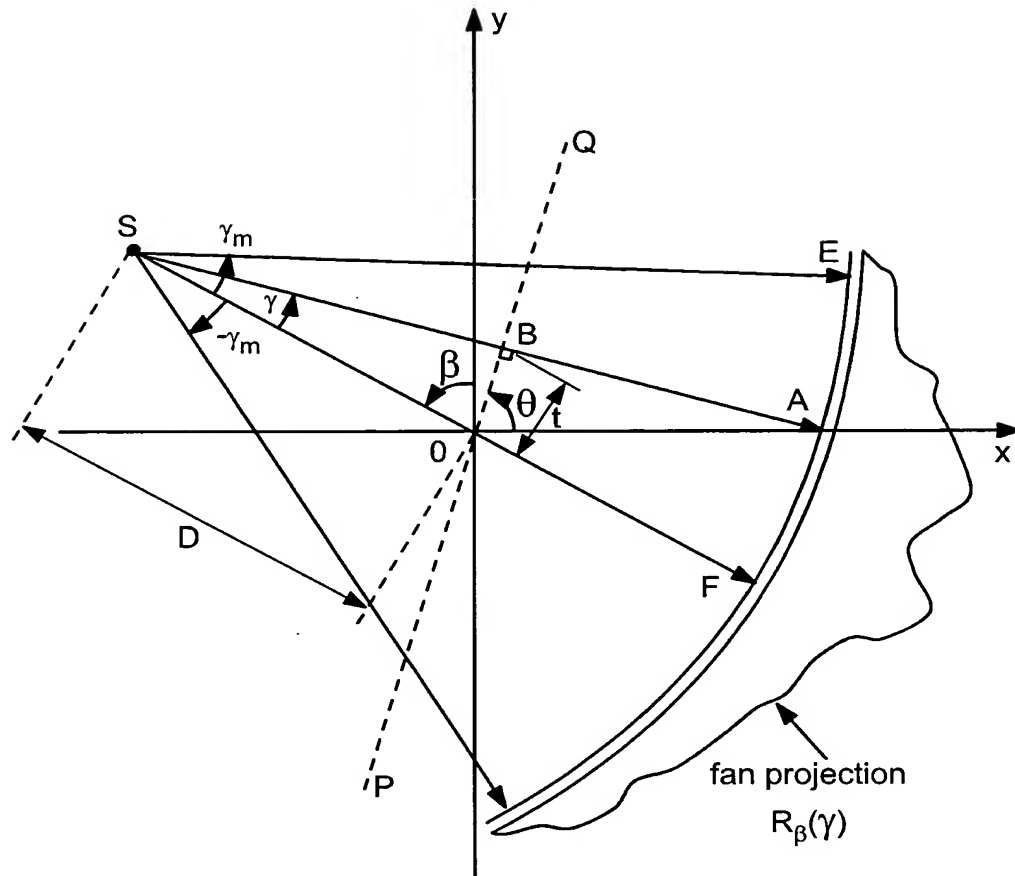


FIG. 5

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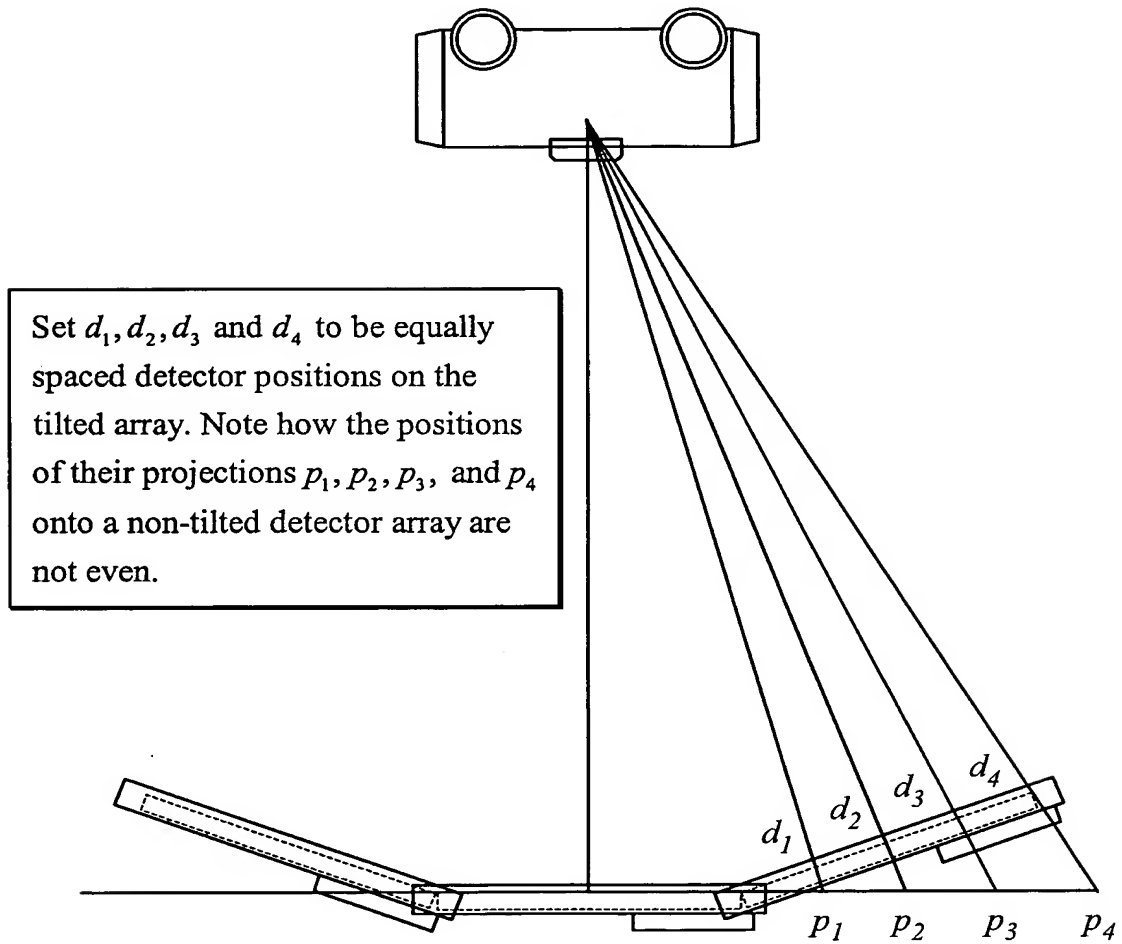


FIG. 6

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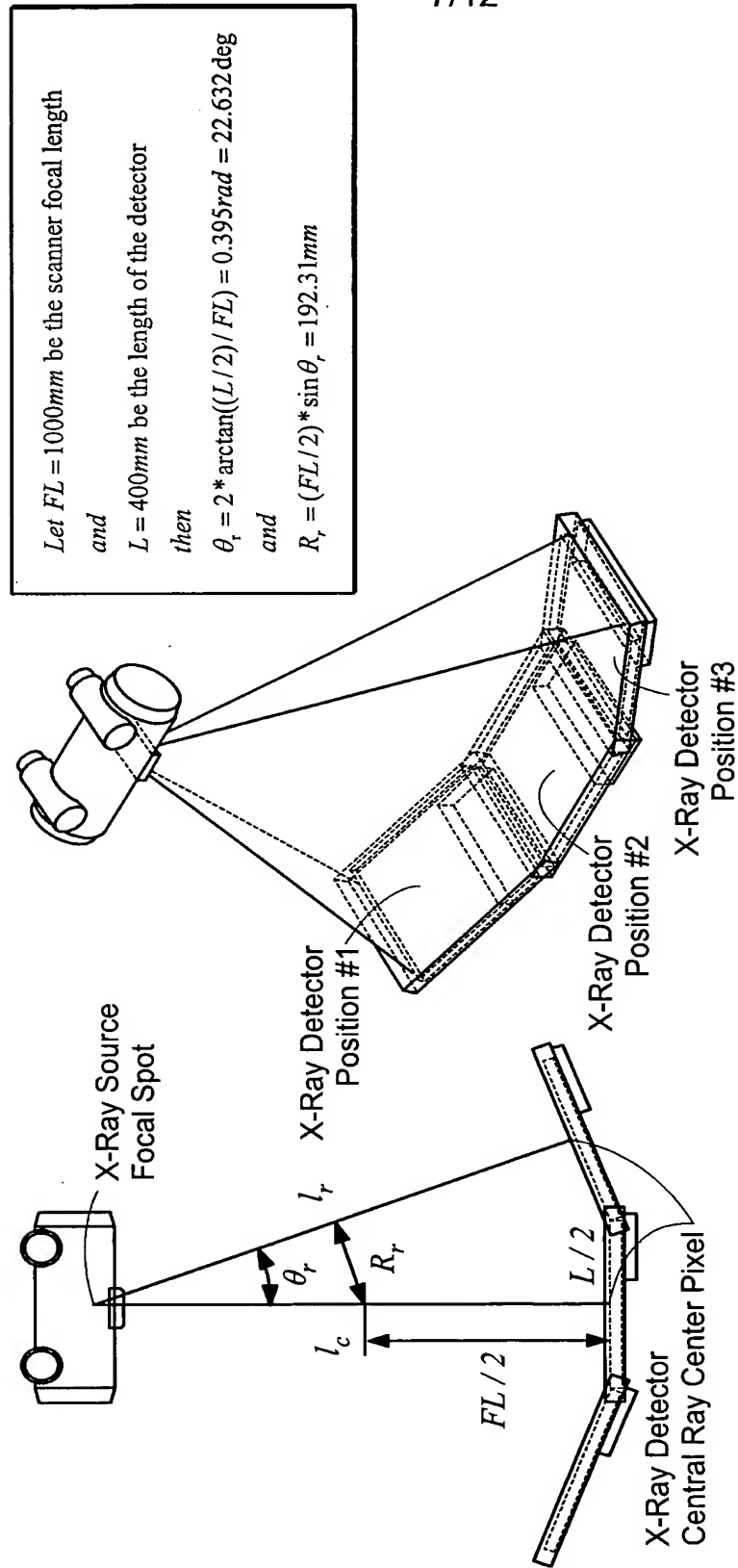


FIG. 7

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Let $FL = 1000mm$ be the scanner focal length
 and
 $L = 400mm$ be the length of the detector
 then
 $\theta_a = \arctan(L / FL) = 0.3804rad = 21.795deg$
 and
 $R_a = (FL / 2) * \sin \theta_a = 185.695mm$

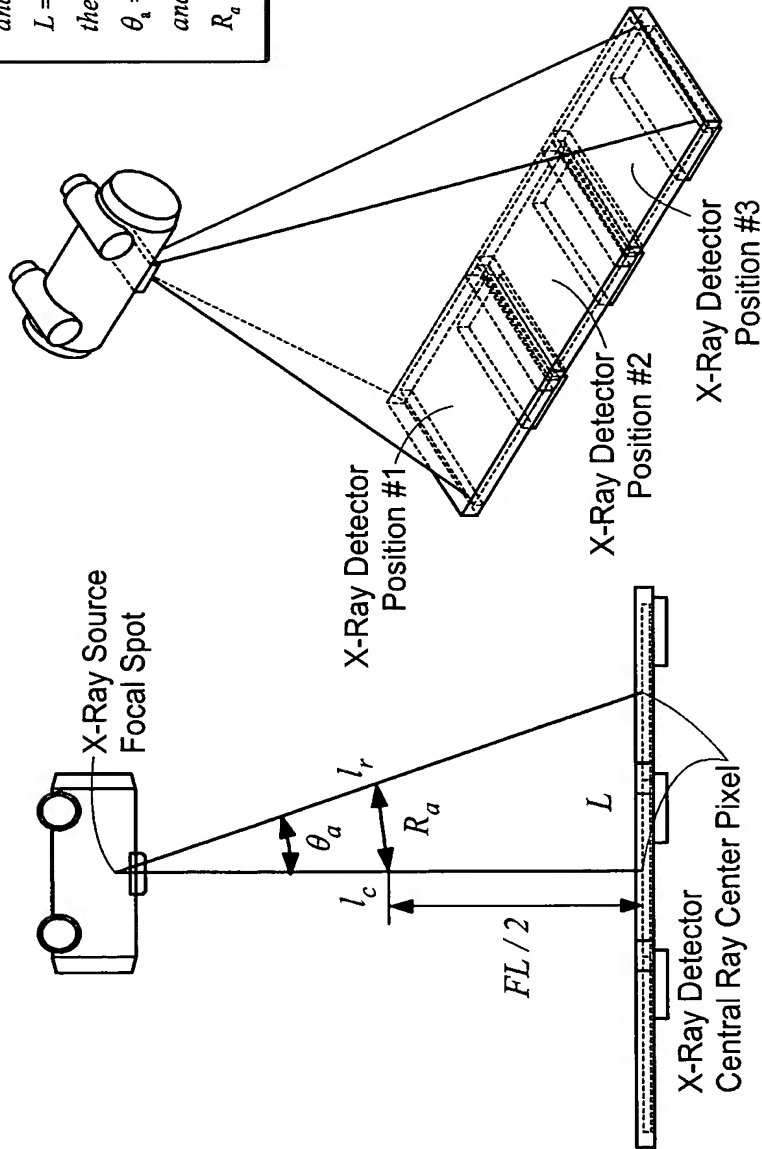


FIG. 8

FIG. 9A
FIG. 9B

FIG. 9

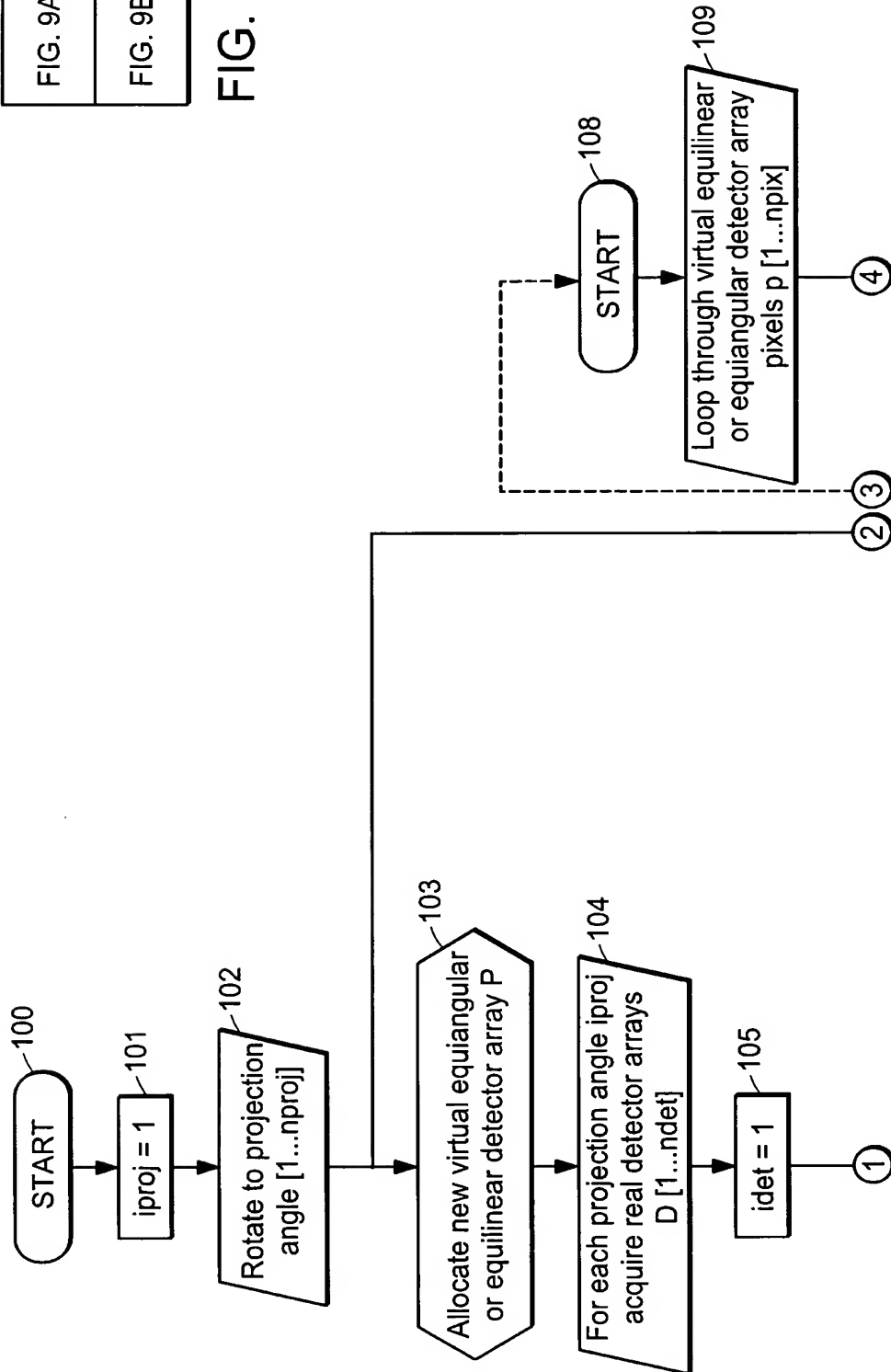


FIG. 9A

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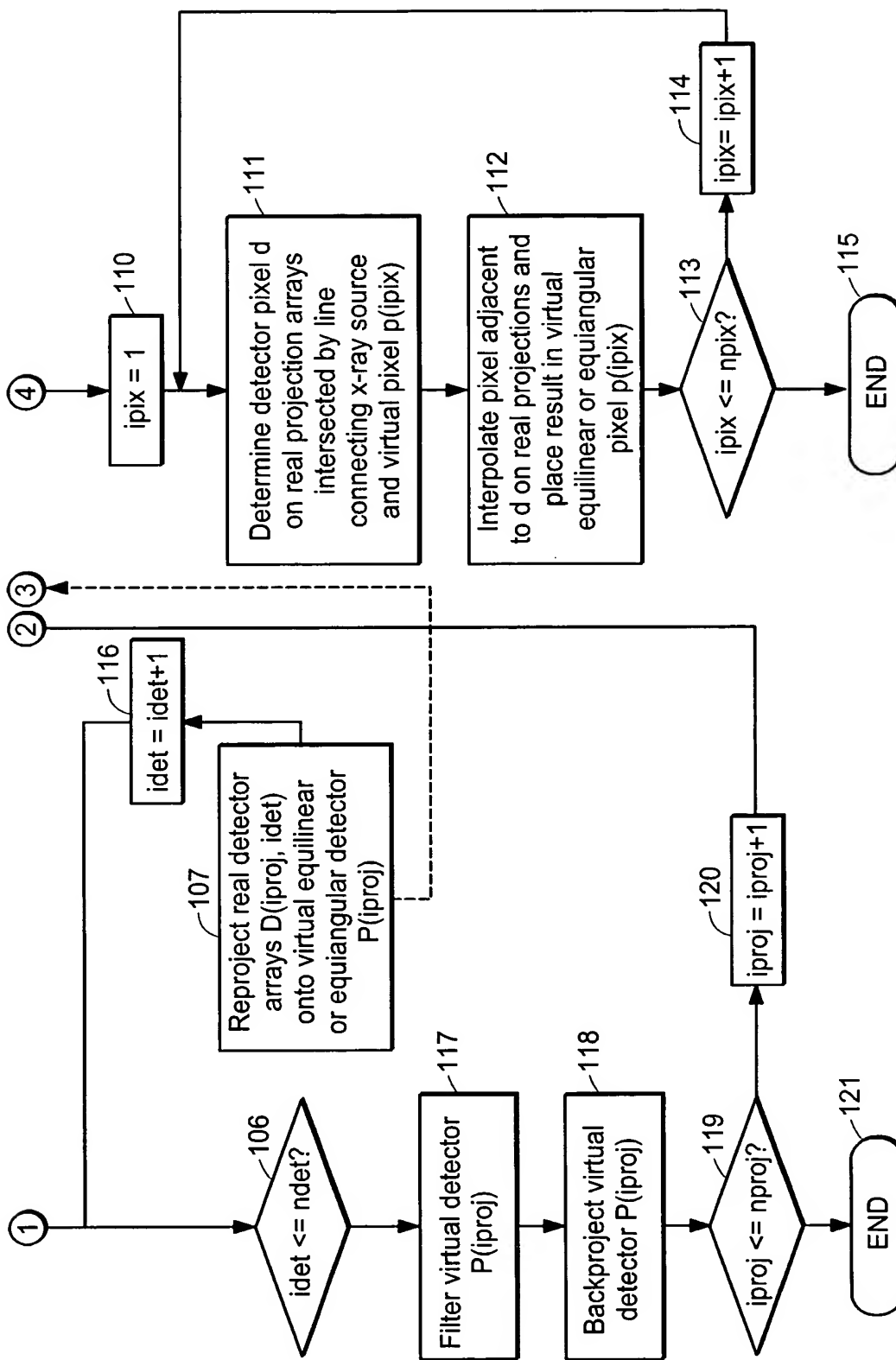


FIG. 9B

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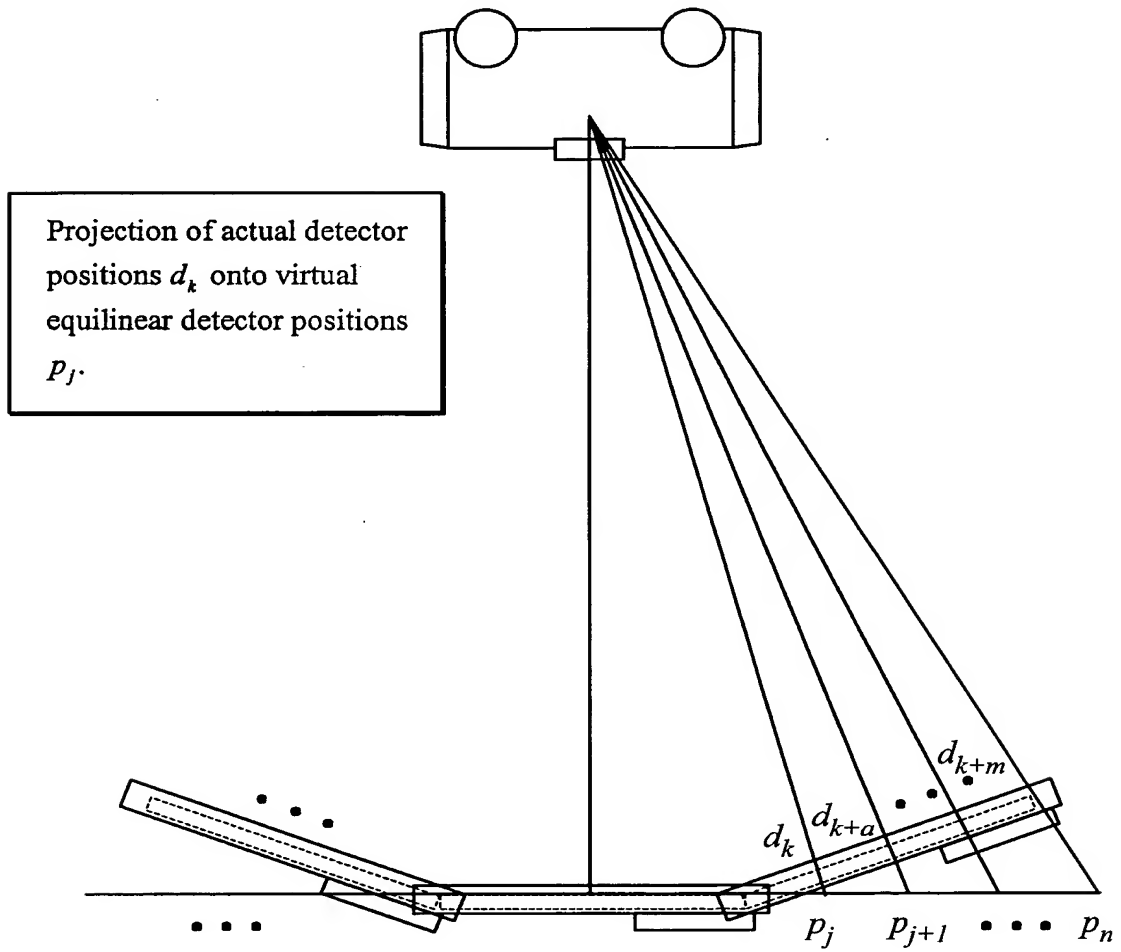


FIG. 10

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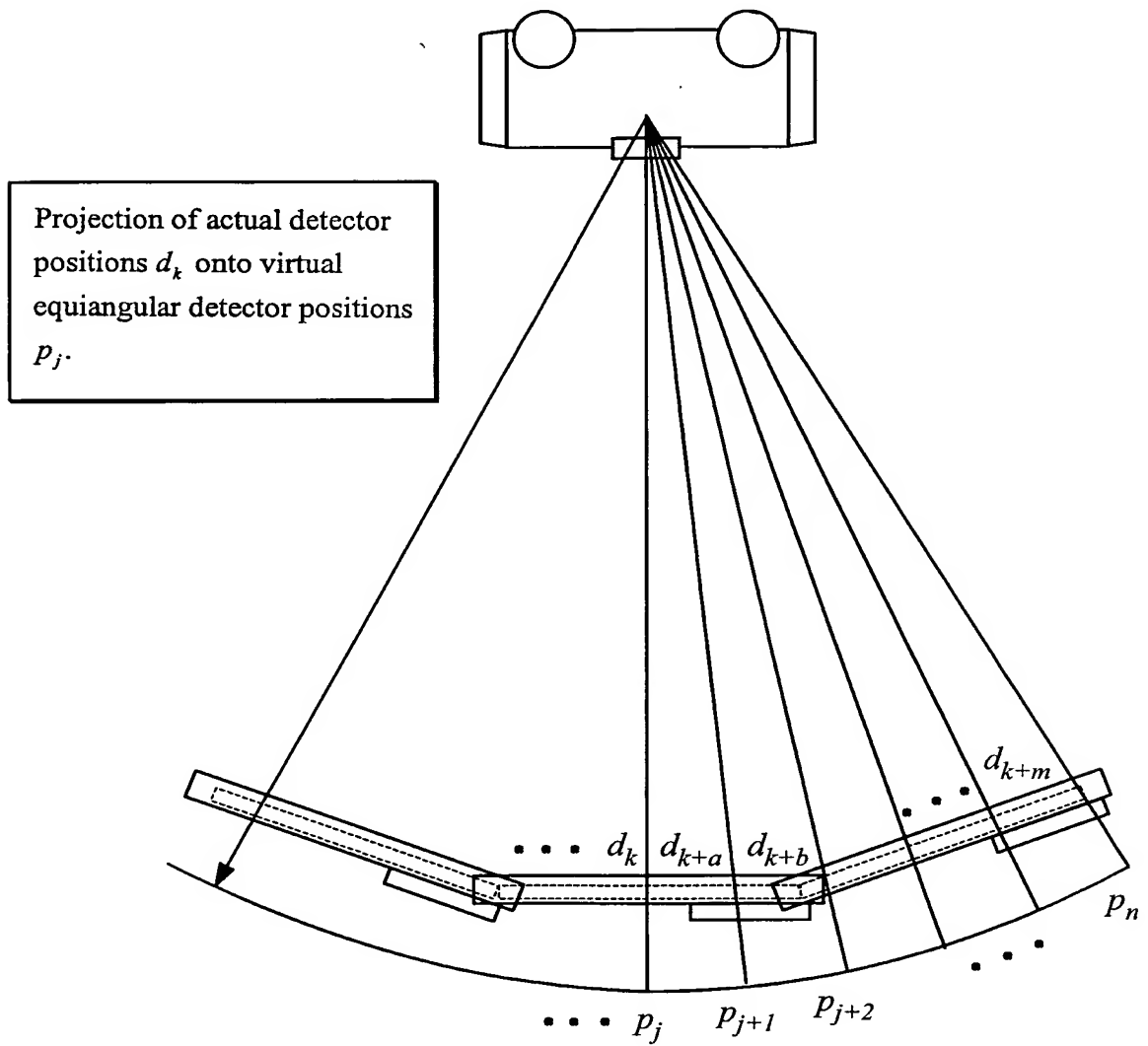


FIG. 11